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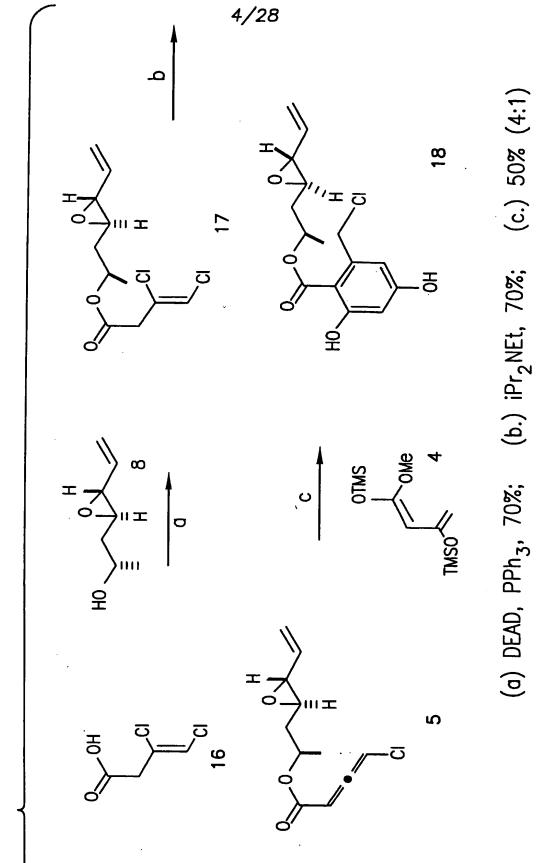
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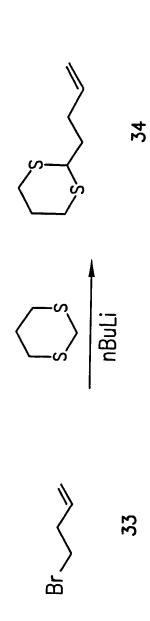
FIG. 1

COCONH₂

- (a) TBDPSCI, imid.,>95%; (b) DIBAL-H,-78 ℃, 92%;
- (c) LiCI, DIPEA (EtO)₂P(O)CH₂CO₂Et, 95%;
- (d) DIBAL-H, -20 °C, 96%; (e) (+)-DET, Ti(O;P_¼), TBHP,90%,>95%ee; (f) SO₃*pyridine, Et₃N, DMSO, 90%;
- (g) PH₃PCH₃Br, NaHMDS, O °C, 82%; (h) TBAF, 89%.



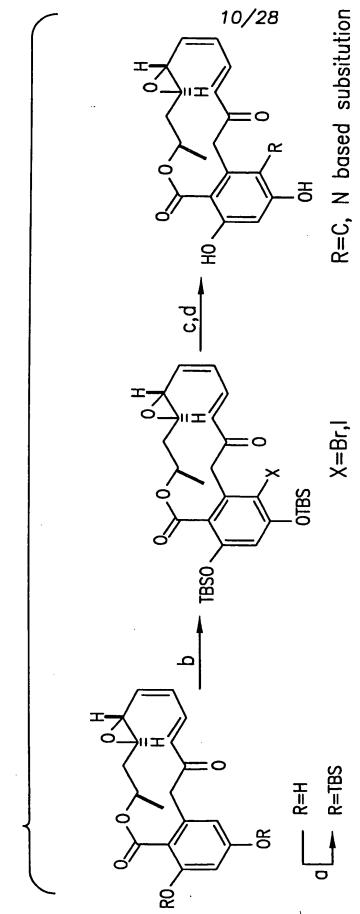
a. n-BuLi, -78 °C, 50% (6:1); b. TBSCI, 83%; c. 42 C, 70%; d. (i) mCPBA, (ii) Ac_20 , Et_3N , H_20 , 60 °C, (iii) $NaHCO_3$, MeOH, 60%; e. SO_2CI_2 , 50%



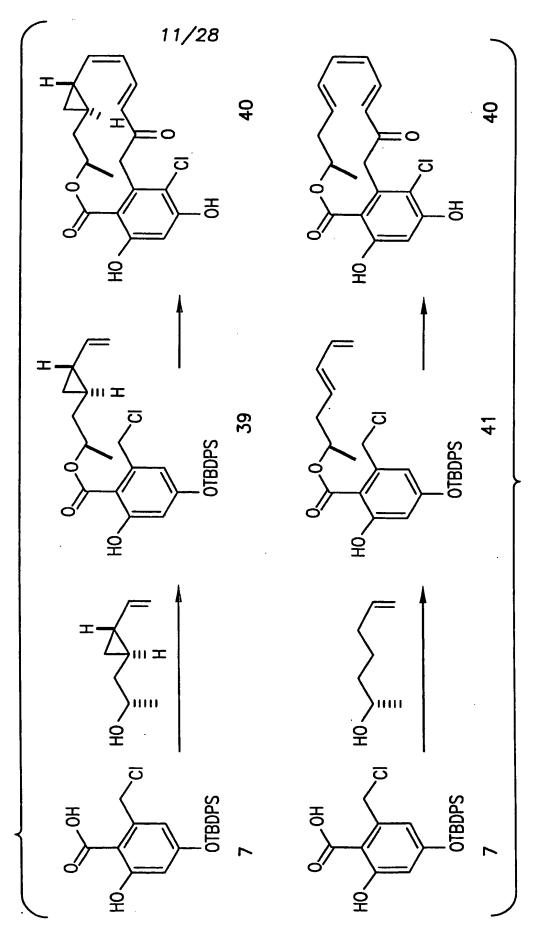
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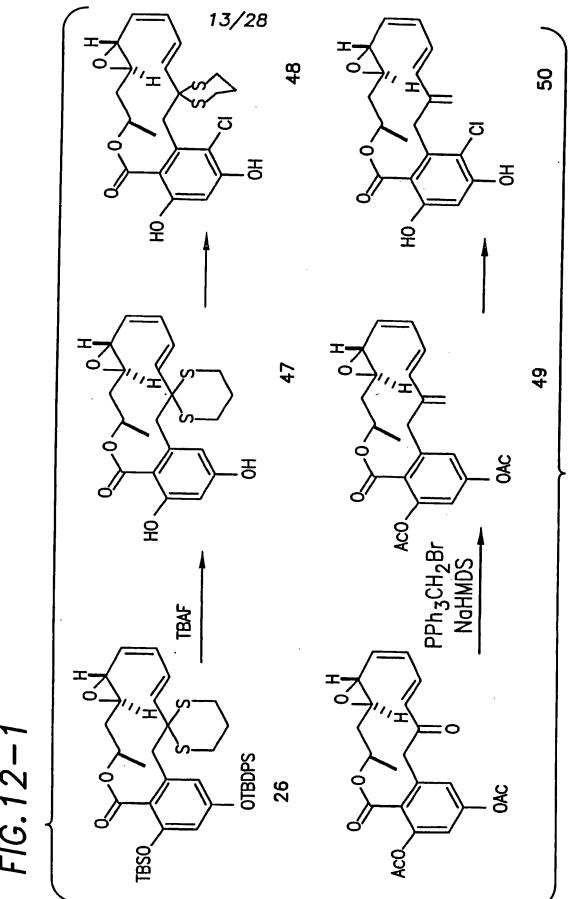
OTMS
OR + OME 25 °C HO
OR 38



a. TBSCI, pyridine; b. NIS or NBS, TsOH; c. $Pd(PPh)_3$, RSnBu₃, d. nBu_4NF



TO FIG. 11-2



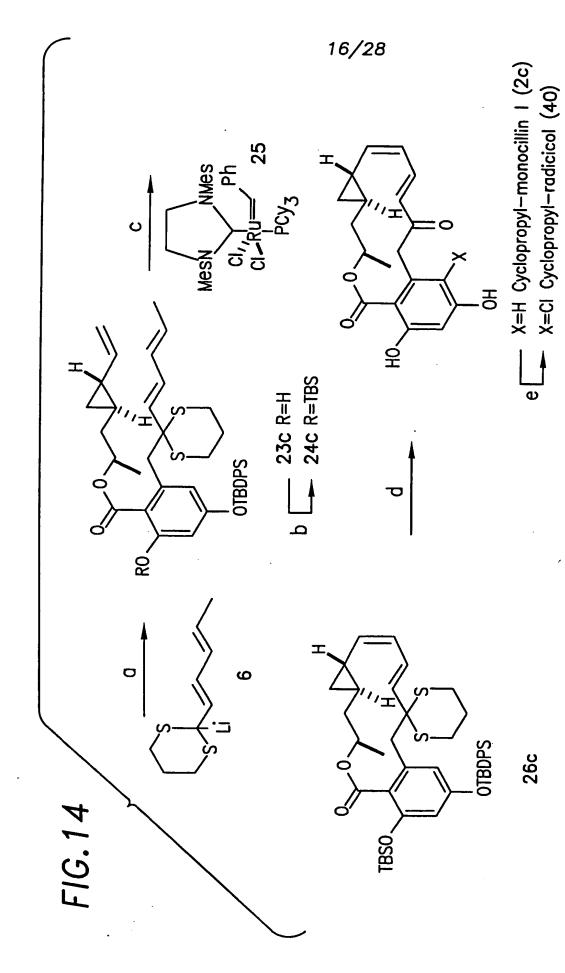
TO FIG. 12-2

54

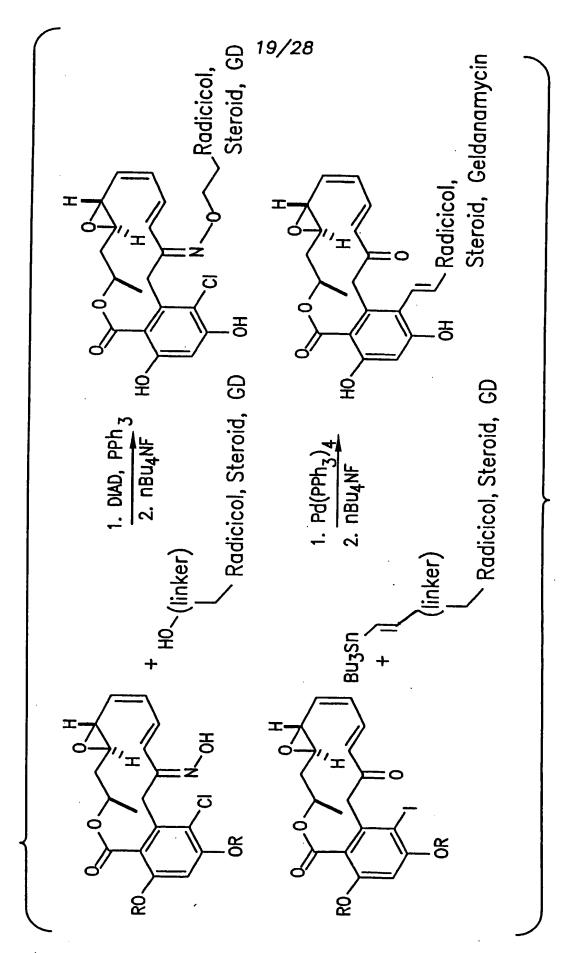
53

^a(a) TBDPSCI, imid.,>95%; (b) DIBAL−H,−78 °C, 92%; (c) LiCl, DIPEA (EtO)₂P(O)CH₂CO₂Et, 95%; (d) DIBAL-H -20 °C, 96%; (e) (+)-tetramethyltartaricacid diamide-BBu, Et $_2$ Zn, CH $_2$ I $_2$, 9 >95% ee; (f) SO $_3$ *pyridine, Et $_3$ N, DMSO, 90%; (g) Ph 3 PCH NaHMDS, O °C, 82%; (h) TBAF, 89%;

(i) 7, P(furyl)₃, DIA benzene, 60%



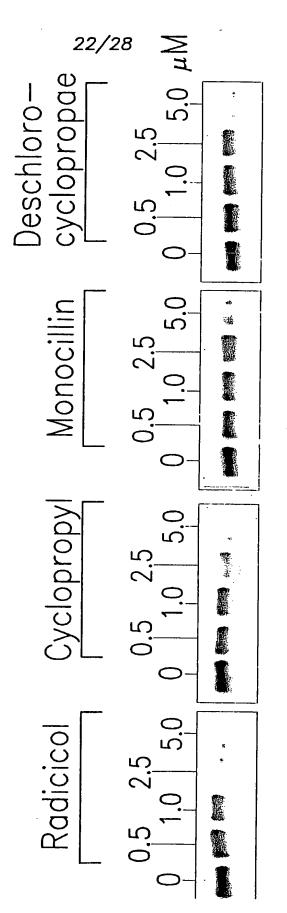
а. n-BuLi, -78 °C, 75% (3:1); b. TBSCI, 83%; с. 42 °C, 20%; d. (i) mCPBA, (ii) Ac_2O , Et_3N , H_2O , 60 °C, (iii) $NaHCO_3$, MeOH, 60%; e. SO_2CI_2 , 80%



TO FIG. 16-2

III. Cyclopropyl radicicol

MCF7 Cells Treated with Radiciciol and Analogues



HER2

TO FIG. 17-3

FIG. 17-3

VII. Radicicol Oxime

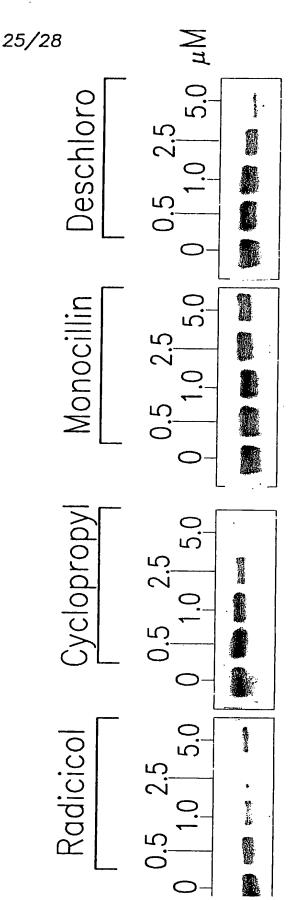
VI. Dimethyl Radicicol

동

III. Cyclopropyl radicicol

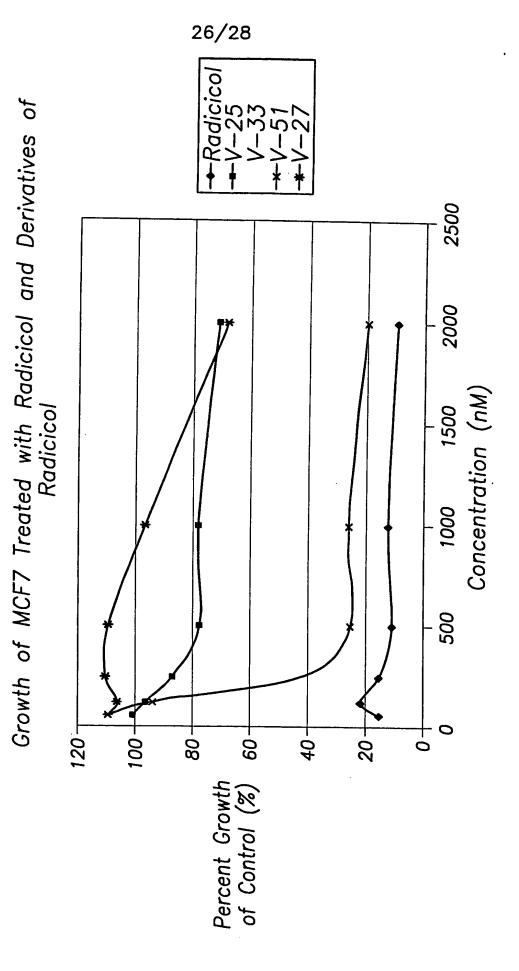
TO FIG. 18-2

BT474 Cells Treated with Novel Radiciciols (24hrs.,

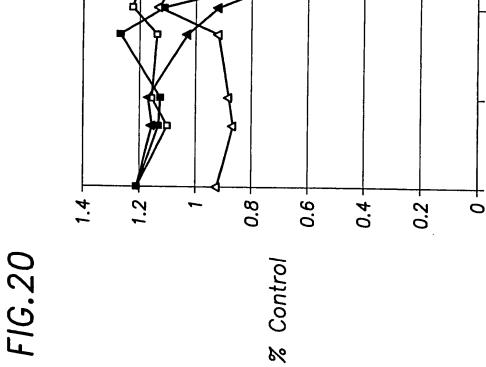


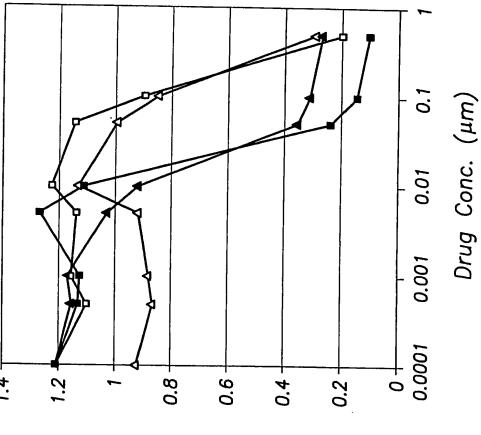
HER2

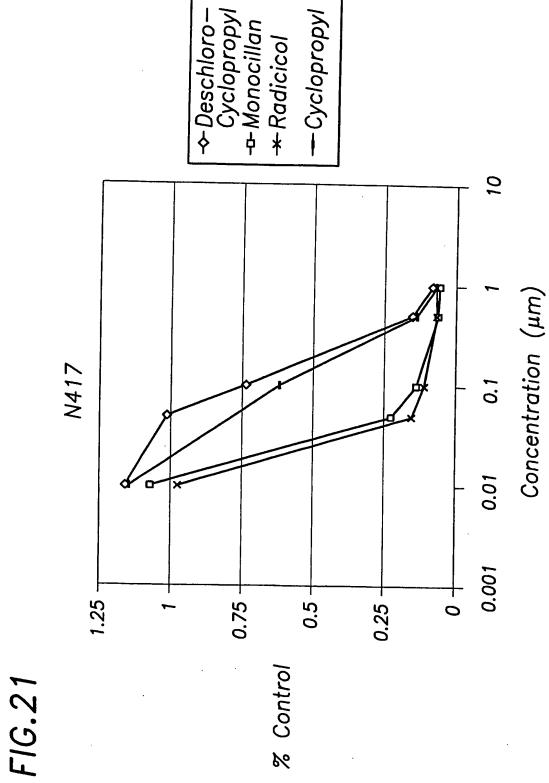
FIG. 19



► BT474—Radicicol
► N417—Radicicol
→ BT474—Cyclopropyl
→ N417—Cyclopropyl







Therapeutic Effect of Cycloproparadicicol in Nude Mice Bearing Human Mammary Carcinoma MX-1 Xenograft (Q2Dx7, iv.injection)

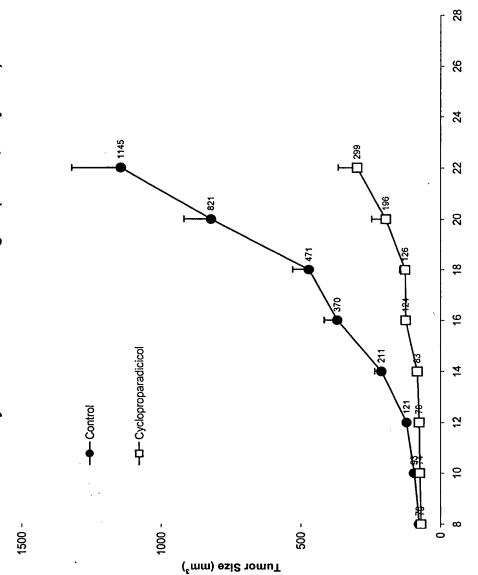
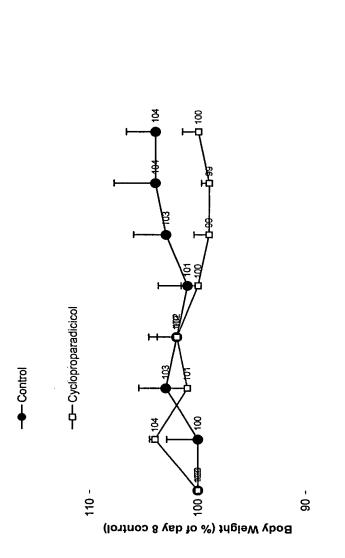
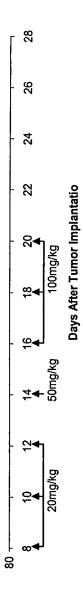


FIG. 27





120 -



MX-1 tumors 12 hrs following a 6 hr CIVI

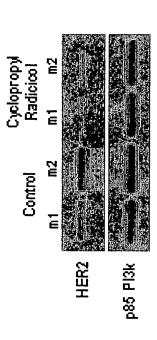
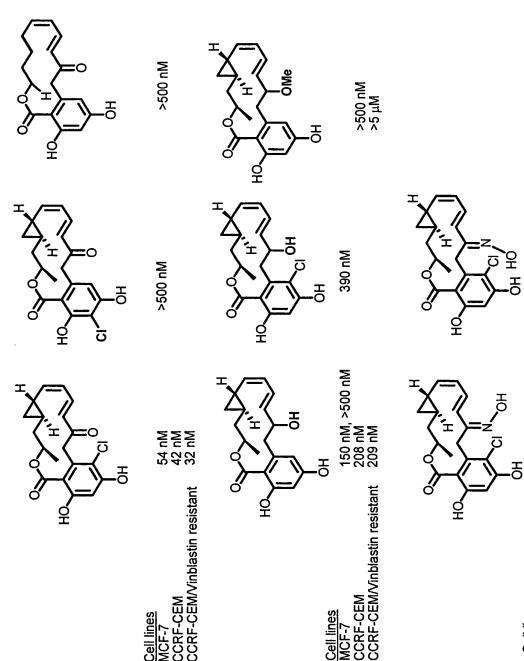


FIG. 24

282 nM

98 nM

IC₅₀ of Growth Inhibition of Different Tumor Cell lines



Degradation of HER2 by Cycloproparadicicol Analogues

Drug concentration (μΜ)

